

[illegible]

## <120> Short Peptides Which Selectively Modulate the Activity of Protein Kinases

<130> 1242.1029-000 (CMCC-679)

<140> US 09/161,094

<141> 1998-09-25

<160> 172

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 20

<212> PRT

<213> unknown

<220>

<223> c-Raf

<400> 1

Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr Lys His Leu His Val Gln  
1 5 10 15

Glu Thr Lys Phe  
20

 $\langle 210 \rangle \quad 2$ 

<211> 20

<212> PRT

<213> unknown

<220>

<223> a-Raf

<400> 2

Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr His His Leu His Val Ala  
1 5 10 15

Asp Thr Arg Phe  
20

<210> 3

<211> 20

<212> PRT

<213> unknown

 $\langle 220 \rangle$ 

<223> Braf

<400> 3

Thr Gln Trp Cys Glu Gly Ser Ser Leu Tyr His His Leu His Ile Ile  
1 5 10 15

Glu Thr Lys Phe



20

<210> 4  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> c-APKa

<400> 4  
 Met Glu Tyr Val Pro Gly Gly Glu Met Phe Ser His Leu Arg Arg Ile  
 1 5 10 15  
 Gly Arg Phe

<210> 5  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> cAPK $\gamma$

<400> 5  
 Met Glu Tyr Val Pro Gly Gly Glu Met Phe Ser Arg Leu Gln Arg Val  
 1 5 10 15  
 Gly Arg Phe

<210> 6  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCa

<400> 6  
 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Tyr His Ile Gln Gln Val  
 1 5 10 15  
 Gly Lys Phe

<210> 7  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCb

<400> 7  
 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Tyr His Ile Gln Gln Val  
 1 5 10 15



Gly Arg Phe

<210> 8  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCg

<400> 8  
 Met Glu Tyr Val Thr Gly Gly Asp Leu Met Tyr His Ile Gln Gln Leu  
 1 5 10 15  
 Gly Lys Phe

<210> 9  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCd

<400> 9  
 Met Glu Phe Leu Asn Gly Gly Asp Leu Met Phe His Ile Gln Asp Lys  
 1 5 10 15  
 Gly Arg Phe

<210> 10  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCe

<400> 10  
 Met Glu Tyr Val Asn Gly Gly Asp Leu Met Phe Gln Ile Gln Arg Ser  
 1 5 10 15  
 Arg Lys Phe

<210> 11  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> PKCet

<400> 11  
 Met Glu Phe Val Asn Gly Gly Asp Leu Met Phe His Ile Gln Lys Ser



1  
Arg Arg Phe

5

10

15

<210> 12  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> PKCth

<400> 12

Met Glu Tyr Leu Asn Gly Gly Asp Leu Met Tyr His Ile Gln Ser Cys  
1 5 10 15  
His Lys Phe

<210> 13  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> Akt1/Raca

<400> 13

Met Glu Tyr Ala Asn Gly Gly Glu Leu Phe Phe His Leu Ser Arg Glu  
1 5 10 15  
Arg Val Phe

<210> 14  
<211> 22  
<212> PRT  
<213> unknown

<220>  
<223> GSK3a

<400> 14

Leu Glu Tyr Val Pro Glu Thr Val Tyr Arg Val Ala Arg His Phe Thr  
1 5 10 15  
Lys Ala Lys Leu Ile Ile  
20

<210> 15  
<211> 22  
<212> PRT  
<213> unknown

<220>  
<223> GSK3b



&lt;400&gt; 15

Leu	Asp	Tyr	Val	Pro	Glu	Thr	Val	Tyr	Arg	Val	Ala	Arg	His	Tyr	Ser
1				5					10					15	
Arg	Ala	Lys	Gln	Thr	Leu										
			20												

&lt;210&gt; 16

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; CK IIa

&lt;400&gt; 16

Phe	Glu	His	Val	Asn	Asn	Thr	Asp	Phe	Lys	Gln	Leu	Tyr	Gln	Thr	Leu
1				5					10					15	

&lt;210&gt; 17

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; CK IIa'

&lt;400&gt; 17

Phe	Glu	Tyr	Ile	Asn	Asn	Thr	Asp	Phe	Lys	Gln	Leu	Tyr	Gln	Ile	Leu
1				5					10					15	

&lt;210&gt; 18

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; bARK1

&lt;400&gt; 18

Leu	Asp	Leu	Met	Asn	Gly	Gly	Asp	Leu	His	Tyr	His	Leu	Ser	Gln	His
1				5					10					15	
Gly	Val	Phe													

&lt;210&gt; 19

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; GRK1

&lt;400&gt; 19

Met	Thr	Ile	Met	Asn	Gly	Gly	Asp	Ile	Arg	Tyr	His	Ile	Tyr	Asn	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



1                      5                      10                      15  
 Asp Glu Asp Asn Pro Gly Phe  
                     20

<210> 20  
 <211> 21  
 <212> PRT  
 <213> unknown

<220>  
 <223> GRK4

<400> 20  
 Leu Thr Ile Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr Asn Leu  
                     1                      5                      10                      15  
 Gly Asn Pro Gly Phe  
                     20

<210> 21  
 <211> 21  
 <212> PRT  
 <213> unknown

<220>  
 <223> GRK5

<400> 21  
 Leu Thr Ile Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr Asn Met  
                     1                      5                      10                      15  
 Gly Asn Pro Gly Phe  
                     20

<210> 22  
 <211> 21  
 <212> PRT  
 <213> unknown

<220>  
 <223> GRK6

<400> 22  
 Leu Thr Leu Met Asn Gly Gly Asp Leu Lys Phe His Ile Tyr His Met  
                     1                      5                      10                      15  
 Gly Gln Ala Gly Phe  
                     20

<210> 23  
 <211> 19  
 <212> PRT  
 <213> unknown

<220>  
 <223> CaMKI

<400> 23



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Met Gln Leu Val Ser Gly Gly Glu Leu Phe Asp Arg Ile Val Glu Lys  
1 5 10 15  
Gly Gly Tyr

<210> 24  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> CaMK IIa

<400> 24

Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg  
1 5 10 15  
Glu Tyr Tyr

<210> 25  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> Plk

<400> 25

Leu Glu Leu Cys Arg Arg Arg Ser Leu Leu Glu Leu His Lys Arg Arg  
1 5 10 15  
Lys Ala Leu

<210> 26  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> Plx1

<400> 26

Leu Glu Leu Cys Arg Arg Arg Ser Leu Leu Glu Leu His Lys Arg Arg  
1 5 10 15  
Lys Ala Val

<210> 27  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> POLO



&lt;400&gt; 27

Leu	Glu	Leu	Cys	Lys	Lys	Arg	Ser	Met	Met	Glu	Leu	His	Lys	Arg	Arg
1				5				10						15	
Lys	Ser	Ile													

&lt;210&gt; 28

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; SNK

&lt;400&gt; 28

Leu	Glu	Tyr	Cys	Ser	Arg	Arg	Ser	Met	Ala	His	Ile	Leu	Lys	Ala	Arg
1				5				10						15	
Lys	Val	Leu													

&lt;210&gt; 29

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; CDC 5

&lt;400&gt; 29

Leu	Glu	Ile	Cys	Pro	Asn	Gly	Ser	Leu	Met	Glu	Leu	Leu	Lys	Arg	Arg
1				5				10						15	
Lys	Val	Leu													

&lt;210&gt; 30

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; Sak

&lt;400&gt; 30

Leu	Glu	Met	Cys	His	Asn	Gly	Glu	Met	Asn	Arg	Tyr	Leu	Lys	Asn	Arg
1				5				10						15	
Val	Lys	Pro	Phe												
				20											

&lt;210&gt; 31

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; Prk



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<400> 31

Leu	Glu	Leu	Cys	Ser	Arg	Lys	Ser	Leu	Ala	His	Ile	Trp	Lys	Ala	Arg
1				5					10					15	
His	Thr	Leu													

<210> 32

<211> 19

<212> PRT

<213> unknown

<220>

<223> P1o1

<400> 32

Leu	Glu	Leu	Cys	Glu	His	Lys	Ser	Leu	Met	Glu	Leu	Leu	Arg	Lys	Arg
1				5					10					15	
Lys	Gln	Leu													

<210> 33

<211> 19

<212> PRT

<213> unknown

<220>

<223> MARK1

<400> 33

Met	Glu	Tyr	Ala	Ser	Gly	Gly	Glu	Val	Phe	Asp	Tyr	Leu	Val	Ala	His
1				5					10					15	
Gly	Arg	Met													

<210> 34

<211> 19

<212> PRT

<213> unknown

<220>

<223> P78

<400> 34

Met	Glu	Tyr	Ala	Ser	Gly	Gly	Glu	Val	Phe	Asp	Tyr	Leu	Val	Ala	His
1				5					10					15	
Gly	Arg	Met													

<210> 35

<211> 20

<212> PRT

<213> unknown

<220>



<223> CDK2

<400> 35

Phe	Glu	Phe	Leu	His	Gln	Asp	Leu	Lys	Lys	Phe	Met	Asp	Ala	Ser	Ala
1				5				10						15	
Leu	Thr	Gly	Ile												
			20												

<210> 36

<211> 20

<212> PRT

<213> unknown

<220>

<223> CDK4

<400> 36

Phe	Glu	His	Val	Asp	Gln	Asp	Leu	Arg	Thr	Tyr	Leu	Asp	Lys	Ala	Pro
1				5				10						15	
Pro	Pro	Gly	Leu												
			20												

<210> 37

<211> 20

<212> PRT

<213> Unknown

<220>

<223> CDK6

<400> 37

Phe	Glu	His	Val	Asp	Gln	Asp	Leu	Thr	Thr	Tyr	Leu	Asp	Lys	Val	Pro
1				5				10						15	
Glu	Pro	Gly	Val												
			20												

<210> 38

<211> 21

<212> PRT

<213> unknown

<220>

<223> c-Src

<400> 38

Thr	Glu	Tyr	Met	Ser	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Gly	Glu
1				5				10						15	
Thr	Gly	Lys	Tyr	Leu											
			20												

<210> 39

<211> 21

<212> PRT

<213> unknown



&lt;220&gt;

&lt;223&gt; c-Yes

&lt;400&gt; 39

Thr	Glu	Phe	Met	Ser	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Glu	Gly
1				5					10					15	
Asp	Gly	Lys	Tyr	Leu											
				20											

&lt;210&gt; 40

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; Fyn

&lt;400&gt; 40

Thr	Glu	Tyr	Met	Asn	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Asp	Gly
1				5					10					15	
Glu	Gly	Arg	Ala	Leu											
				20											

&lt;210&gt; 41

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; c-Fgr

&lt;400&gt; 41

Thr	Glu	Phe	Met	Cys	His	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Asn	Pro
1				5					10					15	
Glu	Gly	Gln	Asp	Leu											
				20											

&lt;210&gt; 42

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; Lyn

&lt;400&gt; 42

Thr	Glu	Tyr	Met	Ala	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Ser	Asp
1				5					10					15	
Glu	Gly	Gly	Lys	Val											
				20											

&lt;210&gt; 43

&lt;211&gt; 21

&lt;212&gt; PRT



<213> unknown

<220>

<223> Hck

<400> 43

Thr	Glu	Phe	Met	Ala	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Ser	Asp
1				5					10					15	
Glu	Gly	Ser	Lys	Gln											
			20												

<210> 44

<211> 21

<212> PRT

<213> unknown

<220>

<223> Lck

<400> 44

Thr	Glu	Tyr	Met	Glu	Asn	Gly	Ser	Leu	Val	Asp	Phe	Leu	Lys	Thr	Pro
1				5					10					15	
Ser	Gly	Ile	Lys	Leu											
			20												

<210> 45

<211> 21

<212> PRT

<213> unknown

<220>

<223> Csk

<400> 45

Thr	Glu	Tyr	Met	Ala	Lys	Gly	Ser	Leu	Val	Asp	Tyr	Leu	Arg	Ser	Arg
1				5					10					15	
Gly	Arg	Ser	Val	Leu											
			20												

<210> 46

<211> 21

<212> PRT

<213> unknown

<220>

<223> MatK

<400> 46

Met	Glu	His	Val	Ser	Lys	Gly	Asn	Leu	Val	Asn	Phe	Leu	Arg	Thr	Arg
1				5					10					15	
Gly	Arg	Ala	Leu	Val											
			20												

<210> 47



<211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> Fak

<400> 47  
 Met Glu Leu Cys Thr Leu Gly Glu Leu Arg Ser Phe Leu Gln Val Arg  
 1 5 10 15  
 Lys Tyr Ser Leu  
 20

<210> 48  
 <211> 21  
 <212> PRT  
 <213> unknown

<220>  
 <223> c-Abl

<400> 48  
 Thr Glu Phe Met Thr Tyr Gly Asn Leu Leu Asp Tyr Leu Arg Glu Cys  
 1 5 10 15  
 Asn Arg Gln Glu Val  
 20

<210> 49  
 <211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> Tie

<400> 49  
 Ile Glu Tyr Ala Pro Tyr Gly Asn Leu Leu Asp Phe Leu Arg Lys Ser  
 1 5 10 15  
 Arg Val Leu Glu Thr Asp Pro Ala Phe Ala Arg Glu His Gly Thr Ala  
 20 25 30  
 Ser Thr Leu  
 35

<210> 50  
 <211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> Tek

<400> 50  
 Ile Glu Tyr Ala Pro His Gly Asn Leu Leu Asp Phe Leu Arg Lys Ser  
 1 5 10 15



Arg Val Leu Glu Thr Asp Pro Ala Phe Ala Ile Ala Asn Ser Thr Ala  
                   20                  25                  30  
 Ser Thr Leu  
                   35

<210> 51  
 <211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> Flg

<400> 51  
 Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr Leu Gln Ala Arg  
 1                  5                  10                  15  
 Arg Pro Pro Gly Leu Glu Tyr Cys Tyr Asn Pro Ser His Asn Pro Glu  
                   20                  25                  30  
 Glu Gln Leu  
                   35

<210> 52  
 <211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> Bek

<400> 52  
 Val Glu Tyr Ala Ser Lys Gly Asn Leu Arg Glu Tyr Leu Arg Ala Arg  
 1                  5                  10                  15  
 Arg Pro Pro Gly Met Glu Tyr Ser Tyr Asp Ile Asn Arg Val Pro Glu  
                   20                  25                  30  
 Glu Gln Met  
                   35

<210> 53  
 <211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> FGFR-3

<400> 53  
 Val Glu Tyr Ala Ala Lys Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg  
 1                  5                  10                  15  
 Arg Pro Pro Gly Leu Asp Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu  
                   20                  25                  30  
 Glu Gln Leu  
                   35

<210> 54



<211> 35  
 <212> PRT  
 <213> unknown

<220>  
 <223> FGFR-4

<400> 54  
 Val Glu Cys Ala Ala Lys Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg  
 1 5 10 15  
 Arg Pro Pro Gly Pro Asp Leu Ser Pro Asp Gly Pro Arg Ser Ser Glu  
 20 25 30  
 Gly Pro Leu  
 35

<210> 55  
 <211> 40  
 <212> PRT  
 <213> unknown  
 <220>  
 <223> PDGFR-a

<400> 55  
 Thr Glu Tyr Cys Phe Tyr Gly Asp Leu Val Asn Tyr Leu His Lys Asn  
 1 5 10 15  
 Arg Asp Ser Phe Leu Ser His His Pro Glu Lys Pro Lys Lys Glu Leu  
 20 25 30  
 Asp Ile Phe Gly Leu Asn Pro Ala  
 35 40

<210> 56  
 <211> 40  
 <212> PRT  
 <213> unknown

<220>  
 <223> PDGFR-b

<400> 56  
 Thr Glu Tyr Cys Arg Tyr Gly Asp Leu Val Asp Tyr Leu His Arg Asn  
 1 5 10 15  
 Lys His Thr Phe Leu Gln His His Ser Asp Lys Arg Arg Pro Pro Ser  
 20 25 30  
 Ala Glu Leu Tyr Ser Asn Ala Leu  
 35 40

<210> 57  
 <211> 40  
 <212> PRT  
 <213> unknown

<220>



# 2025

Leu Pro Tyr Met Lys His Gly Asp Leu Arg Asn Phe Ile Arg Asn Glu  
1 5 10 15  
Thr His Asn Pro  
20



<210> 61  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> c-Sea

<400> 61  
 Leu Pro Tyr Met Arg His Gly Asp Leu Arg His Phe Ile Arg Ala Gln  
 1 5 10 15  
 Glu Arg Ser Pro  
 20

<210> 62  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> Ron

<400> 62  
 Leu Pro Tyr Met Cys His Gly Asp Leu Leu Gln Phe Ile Arg Ser Pro  
 1 5 10 15  
 Gln Arg Asn Pro  
 20

<210> 63  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> EGFR

<400> 63  
 Thr Gln Leu Met Pro Phe Gly Cys Leu Leu Asp Tyr Val Arg Glu His  
 1 5 10 15  
 Lys Asp Asn Ile  
 20

<210> 64  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> ErbB2

<400> 64  
 Thr Gln Leu Met Pro Tyr Gly Cys Leu Leu Asp His Val Arg Glu Asn  
 1 5 10 15  
 Arg Gly Arg Leu



20

<210> 65  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> ErbB3

<400> 65  
 Thr Gln Tyr Leu Pro Leu Gly Ser Leu Leu Asp His Val Arg Gln His  
 1 5 10 15  
 Arg Gly Ala Leu  
 20

<210> 66  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> ErbB4

<400> 66  
 Thr Gln Leu Met Pro His Gly Cys Leu Leu Glu Tyr Val His Glu His  
 1 5 10 15  
 Lys Asp Asn Ile  
 20

<210> 67  
 <211> 43  
 <212> PRT  
 <213> unknown

<220>  
 <223> Ret

<400> 67  
 Val Glu Tyr Ala Lys Tyr Gly Ser Leu Arg Gly Phe Leu Arg Glu Ser  
 1 5 10 15  
 Arg Lys Val Gly Pro Gly Tyr Leu Gly Ser Gly Gly Ser Arg Asn Ser  
 20 25 30  
 Ser Ser Leu Asp His Pro Asp Glu Arg Ala Leu  
 35 40

<210> 68  
 <211> 34  
 <212> PRT  
 <213> unknown

<220>  
 <223> TRK-NGFR



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<400> 68

Phe Glu Tyr Met Arg His Gly Asp Leu Asn Arg Phe Leu Arg Ser His  
1 5 10 15  
Gly Pro Asp Ala Lys Leu Leu Ala Gly Gly Glu Asp Val Ala Pro Gly  
20 25 30  
Pro Leu

<210> 69

<211> 32

<212> PRT

<213> unknown

<220>

<223> TrkB

<400> 69

Phe Glu Tyr Met Lys His Gly Asp Leu Asn Lys Phe Leu Arg Ala His  
1 5 10 15  
Gly Pro Asp Ala Val Leu Met Ala Glu Gly Asn Pro Pro Thr Glu Leu  
20 25 30

<210> 70

<211> 35

<212> PRT

<213> unknown

<220>

<223> TrkC

<400> 70

Phe Glu Tyr Met Lys His Gly Asp Leu Asn Lys Phe Leu Arg Ala His  
1 5 10 15  
Gly Pro Asp Ala Met Ile Leu Val Asp Gly Gln Pro Arg Gln Ala Lys  
20 25 30  
Gly Glu Leu  
35

<210> 71

<211> 19

<212> PRT

<213> unknown

<220>

<223> Syk

<400> 71

Met Glu Met Ala Glu Leu Gly Pro Leu Asn Lys Tyr Leu Gln Gln Asn  
1 5 10 15  
Arg His Val

<210> 72



<211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> Zap70

<400> 72  
 Met Glu Met Ala Gly Gly Gly Pro Leu His Lys Phe Leu Val Gly Lys  
 1 5 10 15  
 Arg Glu Glu Ile  
 20

<210> 73  
 <211> 20  
 <212> PRT  
 <213> unknown

<220>  
 <223> Jak1

<400> 73  
 Met Glu Phe Leu Pro Ser Gly Ser Leu Lys Glu Tyr Leu Pro Lys Asn  
 1 5 10 15



Lys Asn Lys Ile  
20

<210> 74  
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<212> PRT  
<213> unknown

<220>  
<223> Jak2

<400> 74  
Met Glu Tyr Leu Pro Tyr Gly Ser Leu Arg Asp Tyr Leu Gln Lys His  
1 5 10 15  
Lys Glu Arg Ile  
20

<210> 75  
<211> 20  
<212> PRT  
<213> unknown

<220>  
<223> Jak3

<400> 75  
Met Glu Tyr Leu Pro Ser Gly Cys Leu Arg Asp Phe Leu Gln Arg His  
1 5 10 15  
Arg Ala Arg Leu  
20

<210> 76  
<211> 18  
<212> PRT  
<213> unknown

<220>  
<223> Tyk2

<400> 76  
Met Glu Tyr Val Pro Leu Gly Ser Leu Arg Asp Tyr Leu Pro Arg His  
1 5 10 15  
Ser Ile

<210> 77  
<211> 19  
<212> PRT  
<213> unknown

<220>  
<223> Iak1



&lt;400&gt; 77

Leu	Glu	Tyr	Ala	Pro	Leu	Gly	Thr	Val	Tyr	Arg	Glu	Leu	Gln	Lys	Leu
1				5					10					15	
Ser	Lys	Phe													

&lt;210&gt; 78

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; Chk1

&lt;400&gt; 78

Leu	Glu	Tyr	Cys	Ser	Gly	Gly	Glu	Leu	Phe	Asp	Arg	Ile	Glu	Pro	Asp
1				5					10					15	
Ile	Gly	Met													

&lt;210&gt; 79

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; IKK-1

&lt;400&gt; 79

Met	Glu	Tyr	Cys	Ser	Gly	Gly	Asp	Leu	Arg	Lys	Leu	Leu	Asn	Lys	Pro
1				5					10					15	
Glu	Asn	Cys	Cys	Gly	Leu										
				20											

&lt;210&gt; 80

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; IKK-2

&lt;400&gt; 80

Met	Glu	Tyr	Cys	Gln	Gly	Gly	Asp	Leu	Arg	Lys	Tyr	Leu	Asn	Gln	Phe
1				5					10					15	
Glu	Asn	Cys	Cys	Gly	Leu										
				20											

&lt;210&gt; 81

&lt;211&gt; 19



<212> PRT  
 <213> unknown

<220>  
 <223> DAPK

<400> 81  
 Leu Glu Leu Val Ala Gly Gly Glu Leu Phe Asp Phe Leu Ala Glu Lys  
 1 5 10 15  
 Glu Ser Leu

<210> 82  
 <211> 31  
 <212> PRT  
 <213> unknown

<220>  
 <223> IRK

<400> 82  
 Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu  
 1 5 10 15  
 Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr Leu  
 20 25 30

<210> 83  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> TGFbRII

<400> 83  
 Thr Ala Phe His Ala Lys Gly Asn Leu Gln Glu Tyr Leu Thr Arg His  
 1 5 10 15  
 Val Ile

<210> 84  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> ACTRIIA

<400> 84  
 Thr Ala Phe His Glu Lys Gly Ser Leu Ser Asp Phe Leu Lys Ala Asn  
 1 5 10 15  
 Val Val



<210> 85  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> ACTRIIB

<400> 85  
 Thr Ala Phe His Asp Lys Gly Ser Leu Thr Asp Tyr Leu Lys Gly Asn  
 1 5 10 15  
 Ile Ile

<210> 86  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> ALK1

<400> 86  
 Thr His Tyr His Glu His Gly Ser Leu Tyr Asp Phe Leu Gln Arg Gln  
 1 5 10 15  
 Thr Leu

<210> 87  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> ALK2

<400> 87  
 Thr His Tyr His Glu Met Gly Ser Leu Tyr Asp Tyr Leu Gln Leu Thr  
 1 5 10 15  
 Thr Leu

<210> 88  
 <211> 18  
 <212> PRT  
 <213> unknown

<220>  
 <223> ALK3

<400> 88  
 Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Phe Leu Lys Cys Ala



25/55

1	5	10	15
Thr Leu			

<210> 89  
<211> 18  
<212> PRT  
<213> unknown

<220>  
<223> ALK4

<400> 89  
Ser Asp Tyr His Glu His Gly Ser Leu Phe Asp Tyr Leu Asn Arg Tyr  
1 5 10 15  
Thr Val

<210> 90  
<211> 18  
<212> PRT  
<213> unknown

<220>  
<223> alk6

<400> 90  
Thr Asp Tyr His Glu Asn Gly Ser Leu Tyr Asp Tyr Leu Lys Ser Thr  
1 5 10 15  
Thr Leu

<210> 91  
<211> 18  
<212> PRT  
<213> unknown

<220>  
<223> DDR1

<400> 91  
Thr Asp Tyr Met Glu Asn Gly Asp Leu Asn Gln Phe Leu Ser Ala His  
1 5 10 15  
Gln Leu

<210> 92  
<211> 18  
<212> PRT  
<213> unknown

<220>  
<223> DDR2



&lt;400&gt; 92

Thr Glu Tyr Met Glu Asn Gly Asp Leu Asn Gln Phe Leu Ser Arg His

1  
Glu Pro

5

10

15

&lt;210&gt; 93

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; unknown

&lt;220&gt;

&lt;223&gt; ILK

&lt;400&gt; 93



Thr	His	Trp	Met	Pro	Tyr	Gly	Ser	Leu	Tyr	Asn	Val	Leu	His	Glu	Gly
1				5					10					15	
Thr	Asn	Phe	Val	Val											
			20												

<210> 94  
 <211> 16  
 <212> PRT  
 <213> unknown

<220>  
 <223> JNK

Met	Glu	Leu	Met	Asp	Ala	Asn	Leu	Cys	Gln	Val	Ile	Gln	Met	Glu	Leu
1				5					10					15	

<210> 95  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <223>

<221> AMIDATION  
 <222> (0)...(20)  
 <223> Akt1/Raca

Gly	Met	Glu	Tyr	Ala	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Ser	Arg
1				5					10					15	
Glu	Arg	Val	Phe												
			20												

<210> 96  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(19)

<223> Alk1

Gly	Thr	His	Tyr	His	Glu	His	Gly	Ser	Leu	Tyr	Asp	Phe	Leu	Gln	Arg
1				5					10					15	



Gln Thr Leu

<210> 97  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(22)

<223> Braf

<400> 97  
 Lys Lys Lys Lys Lys Lys Gly Gly Ser Ser Leu Tyr His His Leu His  
 1 5 10 15  
 Ile Ile Glu Thr Lys Phe  
 20

<210> 98  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(21)

<223> Braf

<400> 98  
 Gly Thr Gln Trp Ser Glu Gly Ser Ser Leu Tyr His His Leu His Ile  
 1 5 10 15  
 Ile Glu Thr Lys Phe  
 20

<210> 99  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(22)

<223> c-Ab1



&lt;400&gt; 99

Gly	Thr	Glu	Phe	Met	Thr	Tyr	Gly	Asn	Leu	Leu	Asp	Tyr	Leu	Arg	Glu
1				5					10					15	
Cys	Asn	Arg	Gln	Glu	Val										
			20												

&lt;210&gt; 100

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(21)

&lt;223&gt;

&lt;223&gt; c-Met

&lt;400&gt; 100

Gly	Leu	Pro	Tyr	Met	Lys	His	Gly	Asp	Leu	Arg	Asn	Phe	Ile	Arg	Asn
1				5					10					15	
Glu	Thr	His	Asn	Pro											
			20												

&lt;210&gt; 101

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(21)

&lt;223&gt; c-Raf

&lt;400&gt; 101

Gly	Thr	Gln	Trp	Ser	Glu	Gly	Ser	Ser	Leu	Tyr	Lys	His	Leu	His	Val
1				5					10					15	
Gln	Glu	Thr	Lys	Phe											
			20												

&lt;210&gt; 102

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; ACETYLATION

&lt;222&gt; (1)...(0)



<223> benzyl ester at position 11

<221> AMIDATION  
<222> (0)...(14)

<223> c-Raf

<400> 102  
Ser Ser Leu Tyr Lys His Leu His Val Gln Glu Thr Lys Phe  
1 5 10

<210> 103  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MYRISTATE  
<222> (1)...(0)  
  
<221> AMIDATION  
<222> (0)...(21)

<223> c-Sea

<400> 103  
Gly Leu Pro Tyr Met Arg His Gly Asp Leu Arg His Phe Ile Arg Ala  
1 5 10 15  
Gln Glu Arg Ser Pro  
20

<210> 104  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> MYRISTATE  
<222> (1)...(0)  
  
<221> AMIDATION  
<222> (0)...(22)

<223> c-Src

<400> 104  
Gly Thr Glu Tyr Met Ser Lys Gly Ser Leu Leu Asp Phe Leu Lys Gly  
1 5 10 15  
Glu Thr Gly Lys Tyr Leu  
20

<210> 105  
<211> 14  
<212> PRT  
<213> Artificial Sequence



<220>  
 <221> ACETYLATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 5  
       benzyl ester at position 9

<221> AMIDATION  
 <222> (0)...(14)

<223> c-Src

<400> 105  
 Gly Ser Leu Leu Asp Leu Lys Gly Glu Thr Gly Lys Phe Leu  
   1                  5                  10

<210> 106  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(21)  
 <223>

<223> CDK2

<400> 106  
 Gly Phe Glu Phe Leu His Gln Asp Leu Lys Lys Phe Met Asp Ala Ser  
   1                  5                  10                  15  
 Ala Leu Thr Gly Ile  
                   20

<210> 107  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 1  
       benzyl ester at position 7

<221> AMIDATION  
 <222> (0)...(14)  
 <223>

<223> CDK2

<400> 107



Asp Leu Lys Lys Phe Met Asp Ala Ser Ala Leu Thr Gly Met  
 1 5 10

<210> 108  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 1  
 benzyl ester at position 7

<221> AMIDATION  
 <222> (0)...(14)

<223> CDK4

<400> 108

Asp Leu Arg Thr Tyr Leu Asp Lys Ala Pro Pro Pro Gly Leu  
 1 5 10

<210> 109  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(21)

<223> CDK4

<400> 109

Gly Phe Glu His Val Asp Gln Asp Leu Arg Thr Tyr Leu Asp Lys Ala  
 1 5 10 15  
 Pro Pro Pro Gly Leu  
 20

<210> 110  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(21)

<223> CDK6



&lt;400&gt; 110

Gly	Phe	Glu	His	Val	Asp	Gln	Asp	Leu	Thr	Thr	Tyr	Leu	Asp	Lys	Val
1				5				10						15	
Pro	Glu	Pro	Gly	Val											
			20												

&lt;210&gt; 111

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(19)

&lt;223&gt; Chk1

&lt;400&gt; 111

Gly	Glu	Tyr	Ser	Ser	Gly	Gly	Glu	Leu	Phe	Asp	Arg	Ile	Glu	Pro	Asp
1				5					10					15	
Ile	Gly	Met													

&lt;210&gt; 112

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(19)

&lt;223&gt;

&lt;223&gt; Chk1

&lt;400&gt; 112

Gly	Glu	Tyr	Ala	Ser	Gly	Gly	Glu	Leu	Phe	Asp	Arg	Ile	Glu	Pro	Asp
1				5					10					15	
Ile	Gly	Met													

&lt;210&gt; 113

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; ACETYLATION

&lt;222&gt; (1)...(0)



<221> AMIDATION  
 <222> (0)...(19)  
 <223>

<223> CK IIa

<400> 113  
 Lys Lys Lys Lys Lys Gly Gly Asn Asn Thr Asp Phe Lys Gln Leu Tyr  
 1 5 10 15  
 Gln Thr Leu

<210> 114  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(17)

<223> CK IIa

<400> 114  
 Gly Phe Glu His Val Asn Asn Thr Asp Phe Lys Gln Leu Tyr Gln Thr  
 1 5 10 15  
 Leu

<210> 115  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(22)  
 <223>

<223> Csk

<400> 115  
 Gly Thr Glu Tyr Met Ala Lys Gly Ser Leu Val Asp Tyr Leu Arg Ser  
 1 5 10 15  
 Arg Gly Arg Ser Val Leu  
 20

<210> 116



<211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 5

<221> AMIDATION  
 <222> (0)...(14)

<223> Csk

<400> 116  
 Gly Ser Leu Val Asp Leu Arg Ser Arg Gly Arg Ser Val Leu  
 1 5 10

<210> 117  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(21)

<223> Fak

<400> 117  
 Gly Met Glu Leu Ser Thr Leu Gly Glu Leu Arg Ser Phe Leu Gln Val  
 1 5 10 15  
 Arg Lys Tyr Ser Leu  
 20

<210> 118  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(17)

<223> FGFR-3

<400> 118  
 Gly Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu  
 1 5 10 15  
 Glu



<210> 119  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 5  
       benzyl ester at position 16

<221> AMIDATION  
 <222> (0)...(16)

<223> FGFR-3

<400> 119  
 Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Glu  
   1                  5                  10                  15

<210> 120  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(23)

<223> FGFR-3

<400> 120  
 Gly Val Glu Tyr Ala Ala Lys Gly Asn Leu Arg Glu Phe Leu Arg Ala  
   1                  5                  10                  15  
 Arg Arg Pro Pro Gly Leu Glu  
           20

<210> 121  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> stearyl at position 1

<221> AMIDATION  
 <222> (0)...(13)  
 <223> FGFR-3

<400> 121  
 Gly Ser Phe Asp Thr Ser Lys Pro Pro Glu Glu Gln Leu  
   1                  5                  10



<210> 122  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(23)

<223> Flk1

<400> 122

Gly	Val	Glu	Phe	Ser	Lys	Phe	Gly	Asn	Leu	Ser	Asn	Phe	Leu	Arg	Ala
1					5				10					15	
Lys	Arg	Asn	Leu	Phe	Val	Pro									
			20												

<210> 123  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(17)  
 <223>

<223> Flk1

<400> 123

Gly	Gly	Asn	Leu	Ser	Asn	Phe	Leu	Arg	Ala	Lys	Arg	Asn	Leu	Phe	Val
1					5				10					15	
Pro															

<210> 124  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(16)

<223> Flk1



&lt;400&gt; 124

Gly	Asn	Leu	Ser	Asn	Phe	Leu	Arg	Ala	Lys	Arg	Asn	Leu	Phe	Val	Pro
1				5					10					15	

&lt;210&gt; 125

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; stearyl at position 1

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(13)

&lt;223&gt; Flk1

&lt;400&gt; 125

Gly	Arg	Phe	Arg	Gln	Gly	Lys	Asp	Tyr	Val	Gly	Glu	Leu
1				5					10			

&lt;210&gt; 126

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; ACETYLTATION

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(22)

&lt;223&gt; GSK3b

&lt;400&gt; 126

Lys	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Gly	Val	Ala	Arg	His	Tyr	Ser	Arg
1				5					10					15	
Ala	Lys	Gln	Thr	Leu	Pro										
				20											

&lt;210&gt; 127

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; ACETYLTATION

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(13)

&lt;223&gt; GSK3b



39/55

<400> 127

Val Ala Arg His Tyr Ser Arg Ala Lys Gln Thr Leu Pro  
1 5 10

<210> 128

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(22)

<223> GSK3b

<400> 128



Gly	Asp	Tyr	Val	Pro	Glu	Thr	Val	Tyr	Arg	Val	Ala	Arg	His	Tyr	Ser
1				5					10					15	
Arg	Ala	Lys	Gln	Thr	Leu										
			20												

<210> 129  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(12)

<223> GSK3b

Arg	Val	Ala	Arg	His	Tyr	Ser	Arg	Ala	Lys	Gln	Thr
1				5					10		

<210> 130  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(22)

<223> Hck

Gly	Thr	Glu	Phe	Met	Ala	Lys	Gly	Ser	Leu	Leu	Asp	Phe	Leu	Lys	Ser
1				5					10					15	
Asp	Glu	Gly	Ser	Lys	Gln										
				20											

<210> 131  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION



<223> Iak1

Gly Leu Glu Tyr Ala Pro Leu Gly Thr Val Tyr Arg Glu Leu Gln Lys  
 1 5 10 15  
 Leu Ser Lys Phe  
 20

<213> Artificial Sequence

[illegible]

Gly Met Glu Tyr Ser Ser Gly Gly Asp Leu Arg Lys Leu Leu Asn Lys  
1 5 10 15  
Pro Glu Asn Ser Ser Gly Leu  
20

<213> Artificial Sequence

 $\langle 222 \rangle \quad (1) \dots (0)$ 

<223>

<223> IKK-2

Gly Met Glu Tyr Ser Gln Gly Gly Asp Leu Arg Lys Tyr Leu Asn Gln  
 1 5 10 15  
 Phe Glu Asn Ser Ser Gly Leu  
 20



<210> 134  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(22)

<223> ILK

<400> 134  
 Gly Thr His Trp Met Pro Tyr Gly Ser Leu Tyr Asn Val Leu His Glu  
 1 5 10 15  
 Gly Thr Asn Phe Val Val  
 20

<210> 135  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> stearyl at position 1

<221> AMIDATION  
 <222> (0)...(13)  
 <223> ILK

<400> 135  
 Gly Tyr Asn Val Leu His Glu Gly Thr Asn Phe Val Val  
 1 5 10

<210> 136  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(19)  
 <223>

<223> IRK



&lt;400&gt; 136

Gly Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg Ser  
 1 5 10 15  
 Leu Arg Pro

&lt;210&gt; 137

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; ACETYLATION

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(12)

&lt;223&gt; IRK

&lt;400&gt; 137

Ala Gln Asn Asn Pro Gly Arg Pro Pro Pro Thr Leu  
 1 5 10

&lt;210&gt; 138

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(13)

&lt;223&gt; IRK

&lt;400&gt; 138

Gly Leu Lys Ser Tyr Leu Arg Ser Leu Arg Pro Glu Ala  
 1 5 10

&lt;210&gt; 139

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(13)

&lt;223&gt; IRK



&lt;400&gt; 139

Gly Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr Leu  
 1 5 10

&lt;210&gt; 140

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(17)

&lt;223&gt; IRK

&lt;400&gt; 140

Gly Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr  
 1 5 10 15  
 Leu

&lt;210&gt; 141

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(21)

&lt;223&gt; Jak1

&lt;400&gt; 141

Gly Met Glu Phe Leu Pro Ser Gly Ser Leu Lys Glu Tyr Leu Pro Lys  
 1 5 10 15  
 Asn Lys Asn Lys Ile  
 20

&lt;210&gt; 142

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; MYRISTATE

&lt;222&gt; (1)...(0)

&lt;221&gt; AMIDATION

&lt;222&gt; (0)...(13)



<223> Jak1

<400> 142

Gly Leu Lys Glu Tyr Leu Pro Lys Asn Lys Asn Lys Ile  
1 5 10

<210> 143

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(13)

<223> Jak2

<400> 143

Gly Leu Arg Asp Tyr Leu Gln Lys His Lys Glu Arg Ile  
1 5 10

<210> 144

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> stearyl at position 1

<221> AMIDATION

<222> (0)...(11)

<223> Jak2

<400> 144

Gly Leu Arg Asp Tyr Leu Gln Lys His Lys Glu  
1 5 10

<210> 145

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(20)



<223> Jak3

<400> 145

Gly Met Glu Tyr Leu Pro Ser Gly Ser Leu Arg Asp Phe Leu Gln Arg  
 1 5 10 15  
 His Arg Ala Leu  
 20

<210> 146

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(21)

<223> Jak3

<400> 146

Gly Met Glu Tyr Leu Pro Ser Gly Ser Leu Arg Asp Phe Leu Gln Arg  
 1 5 10 15  
 His Arg Ala Arg Leu  
 20

<210> 147

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(13)

<223> Jak3

<400> 147

Gly Leu Arg Asp Phe Leu Gln Arg His Arg Ala Arg Leu  
 1 5 10

<210> 148

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<221> ACETYLATION



<222> (1)...(0)  
 <223> benzyl ester at position 5

<221> AMIDATION  
 <222> (0)...(14)

<223> Lck

<400> 148  
 Gly Ser Leu Val Asp Leu Lys Thr Pro Ser Gly Ile Lys Leu .  
 1 5 10

<210> 149  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(22)  
 <223> Lck

<400> 149  
 Gly Thr Glu Tyr Met Glu Asn Gly Ser Leu Val Asp Phe Leu Lys Thr  
 1 5 10 15  
 Pro Ser Gly Ile Lys Leu  
 20

<210> 150  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(22)

<223> Lyn

<400> 150  
 Gly Thr Glu Tyr Met Ala Lys Gly Ser Leu Leu Asp Phe Leu Lys Ser  
 1 5 10 15  
 Asp Glu Gly Gly Lys Val  
 20

<210> 151  
 <211> 20  
 <212> PRT



Gly Met Glu Tyr Ala Ser Gly Gly Glu Val Phe Asp Tyr Leu Val Ala  
1 5 10 15  
His Gly Arg Met  
20

Gly Asp Leu Val Asp Tyr Leu His Arg Asn Lys His Thr Phe Leu  
1 5 10 15

Gly Thr Glu Tyr Ser Arg Tyr Gly Asp Leu Val Asp Tyr Leu His Arg  
1 5 10 15  
Asn Lys His Thr Phe Leu  
20



<210> 154  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(20)

<223> PKCb

<400> 154  
 Gly Met Glu Tyr Val Asn Gly Gly Asp Leu Met Tyr His Ile Gln Gln  
 1 5 10 15  
 Val Gly Arg Phe  
 20

<210> 155  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLATION  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(20)

<223> PKCb

<400> 155  
 Lys Lys Lys Lys Lys Lys Gly Gly Asp Leu Met Tyr His Ile Gln Gln  
 1 5 10 15  
 Val Gly Arg Phe  
 20

<210> 156  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 5

<221> AMIDATION  
 <222> (0)...(12)

<223> Plk

<400> 156  
 Arg Ser Leu Leu Glu Leu His Lys Arg Arg Lys Ala



1

5

10

<210> 157  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <223> benzyl ester at position 6

<221> AMIDATION  
 <222> (0)...(13)

<223> Plk

<400> 157  
 Gly Arg Ser Leu Leu Glu Leu His Lys Arg Arg Lys Ala  
 1 5 10

<210> 158  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(20)

<223> Plk

<400> 158  
 Gly Leu Glu Leu Ser Arg Arg Arg Ser Leu Leu Glu Leu His Lys Arg  
 1 5 10 15  
 Arg Lys Ala Leu  
 20

<210> 159  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(22)

<223> Ret

<400> 159



Gly Val Glu Tyr Ala Lys Tyr Gly Ser Leu Arg Gly Phe Leu Arg Glu  
 1 5 10 15  
 Ser Arg Lys Val Gly Pro  
 20

<210> 160  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> ACETYLTATION  
 <222> (1)...(0)  
 <223> benzyl ester at position 9

<221> AMIDATION  
 <222> (0)...(15)

<223> Ret

<400> 160

Gly Ser Leu Arg Gly Phe Leu Arg Glu Ser Arg Lys Val Gly Pro  
 1 5 10 15

<210> 161  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)

<221> AMIDATION  
 <222> (0)...(21)

<223> Ron

<400> 161

Gly Leu Pro Tyr Met Cys His Gly Asp Leu Leu Gln Phe Ile Arg Ser  
 1 5 10 15  
 Pro Gln Arg Asn Pro  
 20

<210> 162  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(20)



<223> SNK

<400> 162

Gly	Leu	Glu	Tyr	Ser	Ser	Arg	Arg	Ser	Met	Ala	His	Ile	Leu	Lys	Ala
1				5					10					15	
Arg	Lys	Val	Leu												
			20												

<210> 163

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(20)

<223> Syk

<400> 163

Gly	Met	Glu	Met	Ala	Glu	Leu	Gly	Pro	Leu	Asn	Lys	Tyr	Leu	Gln	Gln
1			5					10						15	
Asn	Arg	His	Val												
			20												

<210> 164

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(19)

<223> TGFbRII

<400> 164

Gly	Thr	Ala	Phe	His	Ala	Lys	Gly	Asn	Leu	Gln	Glu	Tyr	Leu	Thr	Arg
1				5				10						15	
His	Val	Ile													

<210> 165

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)



<221> AMIDATION  
 <222> (0)...(25)

<223> TrkB

<400> 165

Gly	Phe	Glu	Tyr	Met	Lys	His	Gly	Asp	Leu	Asn	Lys	Phe	Leu	Arg	Ala
1				5					10					15	
His	Gly	Pro	Asp	Ala	Val	Leu	Met	Ala							
			20					25							

<210> 166

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(13)

<223> TrkB

<400> 166

Gly	Leu	Arg	Ala	His	Gly	Pro	Asp	Ala	Val	Leu	Met	Ala
1				5					10			

<210> 167

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)

<221> AMIDATION

<222> (0)...(11)

<223> TrkB

<400> 167

Gly	Leu	Arg	Ala	His	Gly	Pro	Asp	Ala	Val	Leu
1				5					10	

<210> 168

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<221> MYRISTATE

<222> (1)...(0)



<221> AMIDATION  
 <222> (0)...(13)  
 <223> TrkB

<400> 168  
 Gly Leu Asn Phe Lys Leu Arg Ala His Gly Pro Asp Ala  
 1 5 10

<210> 169  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence  
 <220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(13)  
 <223> TrkB

<400> 169  
 Gly Phe Lys Leu Arg Ala His Gly Pro Asp Ala Val Leu  
 1 5 10

<210> 170  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence  
 <220>  
 <221> MYRISTATE  
 <222> (1)...(0)  
 <221> AMIDATION  
 <222> (0)...(21)  
 <223> Zap70

<400> 170  
 Gly Met Glu Met Ala Gly Gly Gly Pro Leu His Lys Phe Leu Val Gly  
 1 5 10 15  
 Lys Arg Glu Glu Ile  
 20

<210> 171  
 <211> 21  
 <212> PRT  
 <213> Unknown



&lt;220&gt;

&lt;223&gt; IRK

&lt;400&gt; 171

Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg Ser Leu Arg Pro Glu  
1 5 10 15  
Ala Glu Asn Asn Pro  
20

&lt;210&gt; 172

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; endothelial growth factor receptor

&lt;400&gt; 172

Lys Phe Asp Val Ile Asn Leu Ala  
1 5